

What is claimed is:

1. A method of compensating for misregistration during operation of a printing press, misregistration occurring in individual printing units being countered by register corrections, comprising the steps of:
 - during a calibration phase, determining a pattern of misregistration after a pause in printing over a plurality of sheets;
 - storing data as a function of the pattern of the misregistration in a memory unit;
 - and
 - applying register correction values to the printing press upon restart of a press run after a second pause in order to compensate for the misregistration, the register correction values being a function of the pattern of misregistration.
2. The method as recited in claim 1 wherein in the calibration phase multiple patterns of misregistration are determined for each of the printing units and the register correction values are a function of an average of the multiple patterns.
3. The method as recited in claim 1 wherein the pattern of the misregistration is recorded at specific interpolations.
4. The method as recited in claim 3 wherein the pattern of the misregistration is approximated through a hyperbolic function and the misregistration values between the interpolations are interpolated or extrapolated using the hyperbolic function.
5. The method as recited in claim 1 wherein the register correction values are stored as a function of the parameters extant during the press run.
6. The method as recited in claim 5 wherein the parameters include at least one of temperature, subject, washing agent, paper class and ink type.

7. The method as recited in claim 1 wherein the compensation of the misregistration is started with a first printed sheet after the second pause.
8. The method as recited in claim 1 further detecting further misregistration occurring after the second pause despite application of the register correction values; determining updated register correction values from the further misregistration; and using the updated register correction values upon a subsequent pause in the press run to compensate for the further misregistration.
9. The method as recited in claim 1 wherein register the correction values are a function of a type of the second pause.
10. The method as recited in claim 9 wherein the type of the second pause is a pause for washing of the rubber blanket.
11. The method as recited in claim 1 wherein the registration correction values are a function of a duration of the second pause.
12. The method as recited in claim 1 wherein the printing press is a sheet-fed offset printing press.